DEF 2068
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T/S 2068

INTRODUCTION:

This program shows how a Data Entry Screen can be utilized for forms processing and data entry. DEF 2068 uses a model for an inventory program but can be modified for any purpose that the programer desires. This model uses an array for only ten files, this can be increased for a more usefull program, but serves well as a demo.

INSTRUCTIONS:

Type LOAD "def" or LOAD "" and <ENTER> to load from cassette tape. The program will auto start. There are on screen prompts to guide you through the program and these instructions will fill in the details. If a crash occurs type GOTO 9000 to resume processing.

Main Menu:

All prompts can be answered in both upper and lower case.

The options available are :

A	Add records to file
D	Delete a record from the file
S	Search for a record in the file
Q	Quit allows for a programed exit from the program and lets the user SAVE or LOAD other files

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ADD:

The Stock# prompt appears at the top of the screen any charachter can be used in the stock number area. All stock numbers are right justified and zero filled.

The program then asks for Description, Supplier, Qty, Unit price, Retail price, Low limit, and Back order information. Editing can be made on the current line with the delete key or the entire record can be changed at the end of the form.

When you have finished filling in the form the program asks you to hit enter to log the record or C to change it. Hitting C prevents the record from being logged and it must be completely reentered from the top.

The next prompt asks for more entry records. Answer with N or n to stop Adding records and return to main menu. Touching any other key will take you to the start of the Add routine.

DELETE:

A warning message is printed at the top of the screen, then the screen turns red and asks for a Stock #. ALL 9 NUMBERS OF THE STOCK # MUST BE ENTERED. Remember Stock #'s are right justified with zeros to nine places! The DEF screen is printd and then filled in with the found record. You are given the option to quit or copy. Press Q to continue with the delete or C to get a copy before destroying the data. YOU MUST PRESS Q TO CONTINUE WITH THE DELETE. You are then asked if you want to delete this. YOU MUST ANSWER THIS Y TO DELETE THE RECORD. Next you are asked if you have more to delete. A N or n will return you to the Main Menu.

SEARCH:

The prompt at the bottom of the screen asks for a Stock #. ALL 9 NUMBERS OF THE STOCK # MUST BE ENTERED. Remember Stock #'s are right justified with zeros to nine places! The DEF screen is printed and then filled in with the found record. You are given The option to quit or copy. Press Q to return to Main Menu or C to get a copy of the data on the screen. YOU MUST PRESS Q TO RETURN TO THE MAIN MENU.

QUIT:

The screen clears and the user is asked to type L to load another file or S to save the current one. After the selection the user is asked for a file name. A LOAD or SAVE is then performed with the given file name. The program returns back to the Main Menu when finished. The program can be stopped by deleting the left quote and typing STOP (SS A) and <ENTER>.

THE PROGRAM:

Here is the program listing.

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   2 DIM e$(10,100)
   5 LET p= VAL "1"
  10 GO TO  VAL "9000"
1001 CLS : LET a$="": LET k$="": LET b$="000000000": LET c$="
 "
1005 PRINT  AT  VAL "0", VAL "5";"Add records"
1009 LET x= VAL "2": LET y= VAL "11": FOR b= VAL "1" TO  VAL "8": READ l,l$
1010 PRINT  AT x, VAL "0";l$;: FOR k= VAL "1" TO l: PRINT  AT x,y+k; CHR$  VAL "
45";: NEXT k: LET k= VAL "1": GO SUB  VAL "1500": NEXT b
1015 DATA  VAL "9","Stock# ", VAL "20","Discript ", VAL "11","Supplier ", VAL "4
","Qty ", VAL "6","Unit Price ", VAL "6","Retail Price ", VAL "3","Low Limit ",
VAL "3","Back Order "
1050 INPUT "Hit ENTER to log this record or C to reenter it                    ";x$
1055 IF x$="C" OR x$="c" THEN  RESTORE : GO TO  VAL "1001"
1060 LET a$=a$+"/": LET e$(p, TO 100)=a$: LET p=p+1
1065  IF p >= 10 THEN  PRINT ; FLASH 1;"File Full"; FLASH 0: PAUSE 500: RETURN
1070 INPUT "More?      Y/N ";x$
1075 IF x$="N" OR x$="n" THEN  RESTORE : RETURN
1080 RESTORE : GO TO  VAL "1001"
1500 PAUSE  VAL "0": LET q$= INKEY$
1505 IF q$= CHR$  VAL "13" AND k <>  VAL "0" THEN  GO TO  VAL "1527"
1510 IF q$= CHR$  VAL "12" AND k> VAL "0" THEN  LET k=k-1: PRINT  AT x,y+k; CHR$
  VAL "45": LET k$=k$( TO k-1): GO TO  VAL "1500"
1515 IF q$< CHR$  VAL "32" THEN  GO TO  VAL "1500"
1520 LET k$=k$+q$: PRINT  AT x,y+k;q$: LET k=k+ VAL "1"
1525 IF k <= 1 THEN  GO TO  VAL "1500"
1527 IF x= VAL "2" THEN  LET k$=b$( TO 1- LEN k$)+k$: LET a$=a$+k$
1528 IF x >=  VAL "4" THEN  LET k$=k$+c$( TO 1- LEN k$)
1530 IF x> VAL "2" AND x <=  VAL "16" THEN  LET a$=a$+"*"+k$
1532 IF x= VAL "8" THEN  LET f$=k$
1533 IF x= VAL "10" OR x= VAL "12" THEN  LET k$= STR$ ( VAL f$* VAL k$): LET k$=
c$( TO  VAL "9"- LEN k$)+k$: LET a$=a$+"*"+k$
1535 LET x=x+ VAL "2": LET k$="": RETURN
3001 CLS : PRINT "Search for a Record": LET l$="": LET q$=""
3005 INPUT "Enter a Stock Number              ";x$
3010 IF x$="" THEN  GO TO  VAL "3005"
3015 LET x$=b$( TO  VAL "9"- LEN x$)+x$
3025 FOR x= VAL "1" TO p
3027 IF e$(x,1 TO 9)=x$ THEN  GO TO 3060
3035 NEXT x
3040 PRINT "File not found": PAUSE 50: RETURN
3060 LET y= VAL "2": PRINT  AT  VAL "2", VAL "0";"Stock #"; AT  VAL "4", VAL "0"
;"Discript"; AT  VAL "6", VAL "0";"Supplier"; AT  VAL "8", VAL "0";"Qty"; AT  VA
L "10", VAL "0";"Unit Price"; AT  VAL "12", VAL "0";"Rtl Price"; AT  VAL "14", V
AL "0";"Low limit"; AT  VAL "16", VAL "0";"Bck Order"
3063 LET d= VAL "0": LET b= VAL "10"
3065 FOR z= VAL "1" TO  VAL "100"
3070 IF e$(x,z) <> "*" THEN  PRINT  AT y,b+(z-x)-d;e$(x,z);
3075 IF e$(x,z+ VAL "1")="*" OR e$(x,z+1)="/" THEN  GO TO  VAL "3100"+( VAL "20"
*(e$(x,z+ VAL "1")="/"))
3080 NEXT z
3085 GO TO  VAL "3120"
3100 IF y= VAL "10" AND b= VAL "10" OR y= VAL "12" AND b= VAL "10" THEN  PRINT
TAB  VAL "18";"Ext ";: LET b= VAL "21": LET d=z-x: NEXT z
3103 PRINT : LET y=y+ VAL "2": LET d=z-x: LET b= VAL "10"
3105 NEXT z
3120 FOR z= VAL "1" TO  VAL "4": LET q$=q$+ SCREEN$ ( VAL "8", VAL "9"+z): NEXT
z
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3140 FOR z= VAL "1" TO  VAL "3": LET l$=l$+ SCREEN$ ( VAL "14", VAL "9"+z): NEXT
 z
3143 IF q$="     " THEN  GO TO  VAL "3150"
3145 IF  VAL l$ >=  VAL q$ THEN  PRINT  FLASH  VAL "1"; AT  VAL "14", VAL "10";l
$; FLASH  VAL "0"
3175  INPUT "Press enter for new search      Q to quit                        C t
o copy                          ";k$
3180 IF k$="Q" OR k$="q" THEN  RETURN
3185 IF k$="" THEN  GO TO 3000
3188 IF k$="c" OR k$="C" THEN  COPY
3190 GO TO 3175
5001 PAPER  VAL "2": INK  VAL "7": CLS : PRINT  AT  VAL "0", VAL "12"; FLASH  VA
L "1";"WARNING"; FLASH  VAL "0"; AT  VAL "1", VAL "4";"This will erase data!!";
PAPER 7; INK 0: PAUSE 100: GO SUB  VAL "3000": INPUT "Delete this?  Y/N
     ";x$
5010 IF x$="N" OR x$="n" THEN  RETURN
5020 LET e$(x)=c$: FOR l=x TO p: LET e$(l)=e$(l+1): NEXT l: LET p=p-1
5023 INPUT "More? Y/N ";x$: IF x$ <> "Y" OR x$ <> "y" THEN  PAPER  VAL "7": INK
 VAL "0": RETURN
5025 GO TO  VAL "5001"
8000 CLS : INPUT "L = load file S = save file     ";k$
8010 IF k$="L" OR k$="l" THEN  INPUT "enter file name ";k$: LOAD k$
8050 IF k$="S" OR k$="s" THEN  INPUT "enter file name ";k$: SAVE k$ LINE 9040
8055  RETURN
9040 CLS : PRINT "          Main Menu                  "
9045 PRINT  AT  VAL "2", VAL "5";"A = Add Records"; AT  VAL "4", VAL "5";"D = De
lete a Record"; AT  VAL "6", VAL "5";"S = Search for a Record"; AT  VAL "8", VAL
 "5";"Q = Quit"
9047 INPUT "Select Option and press ENTER   ";o$
9050 IF o$="A" OR o$="a" THEN  GO SUB  VAL "1000"
9060 IF o$="D" OR o$="d" THEN  GO SUB  VAL "5000"
9070 IF o$="S" OR o$="s" THEN  GO SUB  VAL "3000"
9080 IF o$="Q" OR o$="q" THEN  GO SUB  VAL "8000"
9090 GO TO  VAL "9040"
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LINES OF INTREST:

2,5	Sets up the data file array e$ and initalizes the pointer p to start of the file.
1009-1050	Prints the DEF screen in add mode. The names and values in the DATA line can be altered to fit your application.
1060	Adds the record to the file
1500-1535	This is the subroutine that does all the work for the form fill-in process. Lines 1505 and 1510 check for enter or delete key pressed respecfully and move to the next line or move back one position on the current line. Lines 1527 and 1528 do the justification of the fields. Lines 1532 and 1533 figure the extended values for the unit and retail price.
3070-3080	Check for field markers and fill in the form during a search or delete.

LINES OF INTREST con't:

5020	Does the delete operation and moves remaining files up in the array.
8010	LOADS a new file k$
8020	SAVES the current file k$
9047-9090	Scans for menu option.

APPLICATIONS:

You can adapt this program to fit any type of form fill in data entry job. A data base for a mailing list, phone book, inventory, or client list to name just a few. The actual part of this program that performs the DEF function is not long or hard to understand.